## Plot \#

## Species Identification

| Species | Tally Marks | Density Total |
| :--- | :--- | :--- |
| Saguaros |  |  |
| Prickly Pear |  |  |
| Staghorn Cholla |  |  |
| Desert Christmas Cactus |  |  |
| Pincushion |  |  |
| Ocotillo |  |  |
| Hedgehog |  |  |
| Fishhook Barrel |  |  |
| Palo Verde |  |  |
| Cresote Bush |  |  |
| Heart-shaped Limber Bush |  |  |
| Fairyduster |  |  |
| Triangle Leaf Bursage |  |  |
| Cat Claw Acacia |  |  |
| Mesquite |  |  |
| Unknown |  |  |

## Soil Analysis:

## Rope test:

Pick up a handful of soil. Add water so that you can squeeze a moist, but not muddy, one inch ball of soil in your hand. Then rub the soil between your fingers.

- Sandy soil feels gritty and loose. It won't form a ball and falls apart when rubbed between your fingers.
- Loam soil is smooth, slick, partially gritty and sticky and forms a ball that crumbles easily. It is a combination of sand and clay particles.
- Clay soil is smooth, sticky and somewhat plastic feeling. It forms ribbons when pressed between fingers.

Be as descriptive as possible in this section.

| Question: | Analysis: |
| :--- | :--- |
| Is there a drainage channel in the plot? If <br> so, show the location in your site plan <br> below. |  |
|  |  |
| Is the ground rocky? If there are rocks, are <br> they small, medium or large, or a mixture? <br> Describe the percentage of each. |  |
|  |  |
| Are the annual plants covering the entire <br> plot? Or are there bare spots? |  |
| What type of soil is present in the plot? <br> Use the rope test to determine if the soil is <br> sandy, clay, or loam. |  |
| Are there any animal disturbances, such as <br> pack rat middens or animal holes in the <br> ground? If so, show the location in your <br> site plan below. |  |

Site Plan of Plot \#

To measure the slope:

- Select the spots where the difference in slope is to be measured. Indicate the locations you selected on the illustration below. Place one pole at each point.

- Measure the horizontal distance between the poles using a table measure and level. This is the horizontal distance.
- Pull the string tight between the poles.
- On the pole that doesn't have the string attached to it, hold the loose end of the string at the same increment mark as on the other pole. Hold the level to the string, and slide the string up or down until the level indicates it is level. The distance the string had to be moved up or down is the difference in elevation change between the two points.
- Divide the change in elevation by the distance between the two poles. Then multiply that number by 100 to figure out the percent slope.

|  | Spot "A" | Spot "B" |
| :--- | :--- | :--- |
| Measure the horizontal <br> distance between poles |  |  |
| using a tape measure and <br> level. Record the total <br> number of inches. |  |  |
| Distance the string had to <br> be moved up or down from <br> the starting point <br> (Elevation change). |  |  |

Calculation: $\%$ slope $=($ change in elevation/horizontal distance $) \times 100$
Don't forget to convert the inches back to feet before dividing by $\mathbf{1 0 0 !}$
Spot A:

$$
\text { \% slope }=(
$$

$\qquad$ in inches) divided by $\qquad$ in inches) $\times 100$

Spot B:

$$
\% \text { slope }=(\ldots \quad \text { divided by ___ }) \times 100
$$

